

AQS Data Mart

Entity Relationship Diagrams

This document provides and overview of how the AQS Data Mart was modeled and describes the structure so that users are more able to design and optimize queries. To navigate this document, click on a subheading below to see the contents. To return to your previous location, follow the link at the bottom of the page.

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Note, this document is <u>not</u> a data dictionary with detailed descriptions of the fields and their meanings. That will be released under separate cover.

Background and Terminology

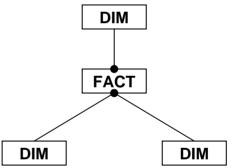
Data Mart Modeling Principles

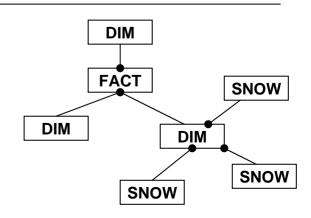
Data marts are modeled differently than the usual second-normal form for relational databases. They are organized with tables that contain the most data at the "center" of the model and other tables with data useful to qualify (narrow) the central data in tables radiating out from the center. This is generally called a "star schema". The tables with most of the data at the center are called "fact" tables. The tables radiating out from the center are called "dimension" tables.

This type of model can be very helpful in constructing SQL queries. The model is designed to conform to the syntax of an SQL SELECT statement which can be constructed as follows: SELECT fact 1, fact 2, ... WHERE dimension 1 = x, dimension 2 = y, ... This has been simplified to show the advantage of a star schema and the AQS Data Mart also has a variety of front ends that let you construct queries without using SQL. For more SQL examples see the "Hints and FAQS" section.

Below are the key points about the data model design:

- Primary data that you want are in "fact" tables
- Data used to filter / qualify fact data are in "dimension" tables
- Many fact records to one dimension
- These are organized into a "star" schema
- If a dimension also has filtering or qualifying information, these are called "snowflakes"
- AQS example: Data is qualified by monitors, which is in turn qualified by other fields (protocols, agency roles, etc.)
- Many to many relationships are handled by "bridge" tables (not illustrated)





Data Mart Additional Terminology

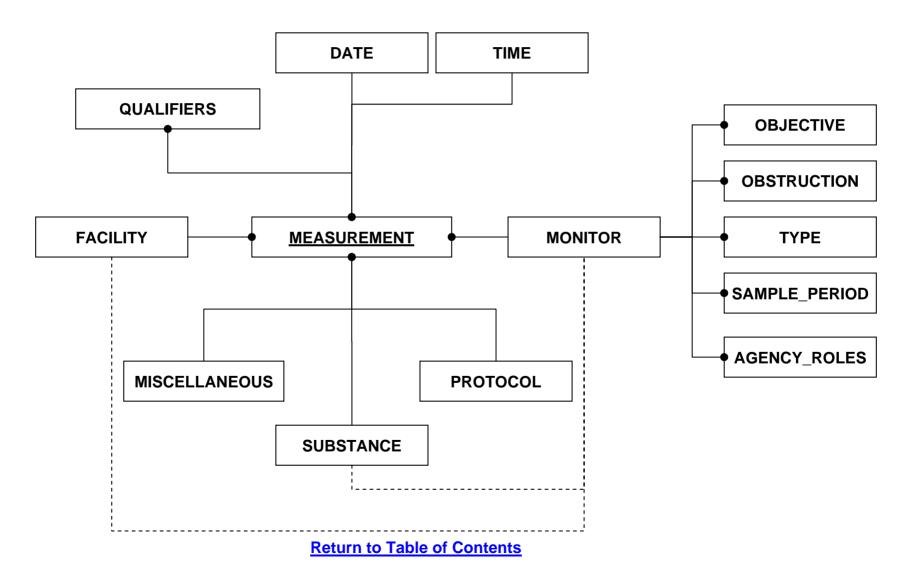
Below is a summary of key points of terminology related to reading the entity relationship diagrams of working with the data in the the AQS Data Mart (not already covered in the "Modeling Principles" section).

- Two dimensions are "conformed" so we can merge AQS data with other systems, so the names may not be
 what you are familiar with. What AQS calls a "parameter" is called substance and what AQS calls "site" is
 called facility. These are the standard names at the EPA for chemicals and places on the earth. So
 remember:
 - Parameter ⇔ "Substance"
 - Site ⇔ "Facility"
- One to many relationships are shown by a line with a bulb at the many end:
- Optional one to many relationships are shown by a dashed line with a bulb at the many end:
- AQS Data Mart has 4 fact tables with essentially the same dimensions:
 - Measurement (Raw Data)
 - Measurement Blanks (Blanks Data)
 - Daily Summary
 - Annual summary
- Fact tables are prefaced with "FACT_"
- Dimension tables are prefaced with "DIM_"
- DIM_MEASUREMENT_JUNK is for fields that don't naturally fit into a dimension
- Primary key for a fact table combo of primary keys for dimensions
 - Thus, foreign key and primary key for dimensions are the same

Simplified View of Measurements (With Conceptual Names)

This is a simplified diagram of just the table (entities) in the AQS Data Mart. It does not show the actual table names, but their information contents. It only represents a single fact table: Measurement.

In actuality, the structure for all of the facts is very similar. That is, Measurement could be replaced with Daily Summary, Annual Summary, or Blanks and the structure would be almost the same.



High Level Data Model

The facts at the center represent 4 separate tables that are not related to each other, but are each related to all the dimensions (with a few exceptions). Only one fact table should ever be included in a single query, thus they can be represented this way in a diagram. Click on any table name below to get its contents.

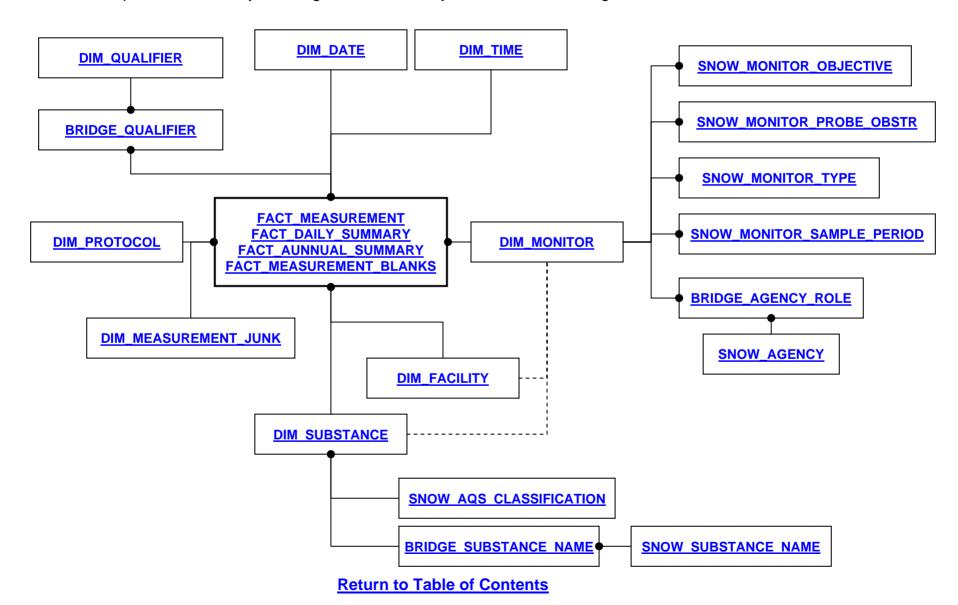


Table Contents (Attributes): Measurement and Blank Facts

FACT MEASUREMENT

DATA_ID
DIM_DATE_GMT_KEY
DIM_TIME_GMT_KEY
DIM_DATE_LOCAL_KEY
DIM_TIME_LOCAL_KEY
DIM_FACILITY_KEY
DIM_MONITOR_KEY
DIM_PROTOCOL_KEY
DIM_SUBSTANCE_KEY
DIM_MEASUREMENT_JUNK_KEY
REPORTED_SAMPLE_VALUE
STANDARD_SAMPLE_VALUE
TRANSFORMATION_FLAG
UNCERTAINTY_VALUE
ALTERNATE MDL

FACT MEASUREMENT BLANKS

DIM DATE GMT KEY DIM DATE LOCAL KEY DIM FACILITY KEY DIM MEASUREMENT JUNK KEY DIM MONITOR KEY DIM PROTOCOL KEY DIM SUBSTANCE KEY DIM TIME GMT KEY DIM TIME LOCAL KEY DATA ID REPORTED SAMPLE VALUE STANDARD SAMPLE VALUE ALTERNATE MDL **BLANK TYPE** TRANSFORMATION FLAG **UNCERTAINTY VALUE**

Table Contents (Attributes): Daily and Annual Summary Fact

FACT_DAILY_SUMMARY

DIM DATE LOCAL KEY DIM FACILITY KEY DIM MEASUREMENT JUNK KEY DIM MONITOR KEY DIM PROTOCOL KEY DIM SUBSTANCE KEY AGGR MAX VALUE AGGR MEAN VALUE AGGR OBS COUNT AIRNOW AIR QUALITY INDEX DAILY AIR QUALITY INDEX DAILY ARITH MEAN DAILY CRITERIA IND DAILY MAX COLL HOUR DAILY MAX SAMPLE VALUE DAILY OBS COUNT DAILY OBS PERCENT DAILY RANKING NUM DAILY SUMMARY FLAG NON OVERLAPPING AVG GT STD TRANSFORMATION FLAG VALUES GT PRI LEVEL DS VALUES GT SEC LEVEL DS

FACT_ANNUAL_SUMMARY

DIM FACILITY KEY DIM MEASUREMENT JUNK KEY DIM MONITOR KEY DIM PROTOCOL KEY DIM SUBSTANCE KEY ANNUAL SUMMARY YEAR AGGR 1ST MAX DATE AGGR 1ST MAX VALUE AGGR 2ND MAX DATE AGGR 2ND MAX VALUE AGGR 3RD MAX DATE AGGR 3RD MAX VALUE AGGR 4TH MAX DATE AGGR 4TH MAX VALUE AGGR 50TH PERCENTILE VALUE AGGR 75TH PERCENTILE VALUE AGGR 90TH PERCENTILE VALUE AGGR 95TH PERCENTILE VALUE AGGR 98TH PERCENTILE VALUE AGGR 99TH PERCENTILE VALUE AGGR MEAN VALUE AGGR OBS COUNT AGGR OBS COUNT AIRNOW AGGR OBS COUNT AQS AGGR STD DEV ANNUAL ARITH MEAN ANNUAL ARITH STDDV ANNUAL CRITERIA IND ANNUAL DIRECT ENTRY IND ANNUAL GEOM MEAN ANNUAL GEOM STDDV ANNUAL OBS COUNT ANNUAL OBS PERCENT ANNUAL SUMMARY FLAG ANNUAL SUMMARY TYPE

FACT_ANNUAL_SUMMARY (Continued)

CERTIFICATION IND DAYS GT ALERT LEVEL EST DAYS GT STD **EXCEPTIONAL DATA CNT** LAST UPDATE DATE MIN SAMPLE VALUE MISSING DAYS ASSUMED LT STD NON OVERLAPPING AVG GT STD NULL DATA OBS CNT OBS CNT LT HALF MDL **REQ MONITORING CNT** SUMMARY 1ST MAX_DATE SUMMARY 1ST MAX VALUE SUMMARY 2ND MAX DATE SUMMARY 2ND MAX VALUE SUMMARY 2ND NONOVERLAP MAX DAT SUMMARY 2ND NONOVERLAP MAX VAL SUMMARY 3RD MAX DATE SUMMARY 3RD MAX VALUE SUMMARY 4TH MAX DATE SUMMARY 4TH MAX VALUE SUMMARY 50TH PERCENTILE VALUE SUMMARY 75TH PERCENTILE VALUE SUMMARY 90TH PERCENTILE VALUE SUMMARY 95TH PERCENTILE VALUE SUMMARY 98TH PERCENTILE VALUE SUMMARY 99TH PERCENTILE VALUE SUMMARY METHOD CNT TRANSFORMATION FLAG VALID DAY CNT VALUES GT PRI LEVEL VALUES GT SEC LEVEL WEIGHTED ARITH MEAN

Table Contents (Attributes): Date and Time Dimensions

DIM_DATE

ACTUAL DATE AQS DAYLIGHT HOURS AT US CENTE AQS EVERY 3RD DAY INDICATOR AQS EVERY 6TH DAY INDICATOR CALENDAR MONTH NAME CALENDAR MONTH NUMBER IN YEAR CALENDAR QUARTER CALENDAR WEEK ENDING DATE CALENDAR WEEK NUMBER IN YEAR CALENDAR YEAR CALENDAR YEAR MONTH DAY NUMBER IN CALENDAR MONTH DAY NUMBER IN CALENDAR YEAR DAY NUMBER IN EPOCH DAY OF WEEK DAY OF WEEK NAME DAY OF WEEK NAME ABBR DIM DATE KEY ETL LAST LOAD DATE ETL LAST LOAD PROCESS **FULL DATE DESCRIPTION** HOLIDAY NAME HOLIDAY TYPE LAST DAY IN MONTH INDICATOR LAST DAY IN WEEK INDICATOR MONTH NUMBER IN EPOCH WEEKDAY INDICATOR WEEK NUMBER IN EPOCH YEAR NUMBER IN EPOCH

DIM_TIME

AM_PM_INDICATOR
DIM_TIME_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
FRACTION_OF_DAY_SINCE_MIDNIGHT
FULL_TIME_DESCRIPTION
HOUR
HOUR_24
MINUTE
SECOND
SECONDS SINCE MIDNIGHT

Table Contents (Attributes): Monitor Dimension and Snowflakes

DIM_MONITOR

COLLABORATING PROGRAMS DIM FACILITY KEY DIM MONITOR KEY DIM SUBSTANCE KEY DOMINANT SOURCE ETL LAST LOAD DATE ETL LAST LOAD PROCESS LAST SAMPLING DATE MEASUREMENT SCALE MEASUREMENT SCALE DEFINITION MO ID POC PROBE HEIGHT PROBE HORIZ DISTANCE PROBE LOCATION PROBE VERT DISTANCE PROJECT TYPE PROJECT TYPE CODE SAMPLE RESIDENCE TIME SURROGATE IND UNRESTR AIR FLOW IND

SNOW_MONITOR_OBJECTIVE

DIM_MONITOR_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
MONITOR_OBJECTIVE_COMMENT
MONITOR_OBJECTIVE_TARGET_CODE
MONITOR_OBJECTIVE_TARGET_NAME
MONITOR_OBJECTIVE_TARGET_TYPE
MONITOR_OBJECTIVE_TYPE
SNOW MONITOR OBJECTIVE KEY

SNOW MONITOR PROBE OBSTR

COMPASS_SECTOR
DIM_MONITOR_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
PROBE_OBSTR_DISTANCE
PROBE_OBSTR_HEIGHT
PROBE_OBSTR_TYPE
SNOW MONITOR PROBE OBSTR KEY

SNOW_MONITOR_TYPE

ACTION_REASON_CODE
ACTION_REASON_NAME
ACTION_TYPE
DIM_MONITOR_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
MONITOR_TYPE
MONITOR_TYPE_ACTION_DATE
MONITOR_TYPE_BEGIN_DATE
MONITOR_TYPE_COMMENT
MONITOR_TYPE_END_DATE
SNOW_MONITOR_TYPE_KEY

SNOW MONITOR SAMPLE PERIOD

DIM_MONITOR_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
SAMPLING_BEGIN_DATE
SAMPLING_END_DATE
SNOW MONITOR SAMPLE PERIOD KEY

BRIDGE_AGENCY_ROLE

BRIDGE_AGENCY_ROLE_KEY
DIM_MONITOR_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
ROLE
ROLE_BEGIN_DATE
ROLE_END_DATE
SNOW AGENCY KEY

SNOW AGENCY

AGENCY_CODE
AGENCY_DESC
AGENCY_TYPE
AGENCY_TYPE_DESC
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
SNOW AGENCY KEY

Table Contents (Attributes): Facility Dimension

DIM FACILITY
ADDRESS_TYPE
AIRSHED_CODE
AQS_AQCR_CODE
AQS_AQCR_DESC
AQS_BLOCK_GROUP_NUM
AQS_BLOCK_NUM
AQS_CENSUS_TRACT_NUM
AQS_CITY_CODE
AQS_CITY_DISTANCE
AQS_CITY_NAME
AQS_CLASS_1_AREA_CODE
AQS_CLASS_1_AREA_NAME
AQS_CLASS_1_AREA_TYPE
AQS_CMSA_CODE
AQS_CMSA_NAME
AQS_COMPASS_SECTOR_CBD_DIR
AQS_COMPASS_SECTOR_MET_SITE_DI
AQS_CONGR_DISTR_NUM
AQS_COUNTY_CODE AQS COUNTY NAME
AQS_EPA_REGION_CODE
AQS_EPA_REGION_CODE AQS_EPA_REGION_NAME
AQS_LAND_USE_TYPE
AQS_LDP_ACC_VALUE
AQS LDP COLL METHOD CODE
AQS_LDP_COLL_METHOD_DESC
AQS LDP GEOMETRIC TYPE
AQS_LDP_HORIZ_DATUM
AQS_LDP_REFERENCE_POINT
AQS_LDP_SOURCE_SCALE
AQS_LDP_VERTICAL_ACC_VALUE
AQS_LDP_VERTICAL_DATUM
I AQS LDP VERTICAL METHOD DESC
AQS_LDP_VERT_MEAS
AQS_LDP_VERT_METHOD_CODE
AQS_LOCAL_REGION_CODE
AQS_LOCAL_REGION_NAME
AQS_LOCAL_SITE_NAME

```
AQS LOCATION SETTING
AQS MET SITE
AQS MET SITE DISTANCE
AQS MET SITE TYPE
AQS MSA CODE
AQS MSA NAME
AQS POST OFFICE NAME
AQS SITE ESTAB DATE
AQS SITE ID
AQS SITE LATITUDE
AQS SITE LONGITUDE
AQS SITE TERMINATED DATE
AQS SI ID
AQS STATE ABBR
AQS STATE CODE
AQS STATE NAME
AQS STREET ADDRESS
AQS TIME ZONE GMT DIFF
AQS TIME ZONE NAME
AQS TRIBAL CODE
AQS TRIBAL DESC
AQS UAR CODE
AQS UAR NAME
AQS UTM EASTING
AQS UTM NORTHING
AQS UTM ZONE NUM
AQS_ZIP_CODE
CENSUS_BLOCK_CODE
CITY NAME
COMPLIANCE IND
CONGRESSIONAL DISTRICT NUM
COUNTRY NAME
COUNTY NAME
DIM FACILITY KEY
END DATE
END DATE QUALIFIER
ENV JUSTICE CODE
EPA REGION CODE
ETL LAST LOAD DATE
```

ETL LAST LOAD PROCESS FEDERAL AGENCY CODE FEDERAL FACILITY CODE FIPS CODE GEOCODE LATITUDE GEOCODE LONGITUDE HUC CODE INTEREST STATUS CODE INTEREST TYPE LAST REPORTED DATE LEGISLATIVE DISTRICT NUM LOCATION ADDRESS LOCATION DESCRIPTION PARENT PGM SYS ID PARSED POST DIR CODE PARSED PRE DIR CODE PARSED STREET NAME PARSED STREET NUMBER PARSED STREET SUFFIX POSTAL CODE PRIMARY NAME PROGRAM LAST REPORTED DATE PROGRAM SENSITIVE IND PROGRAM_SYSTEM_ACRONYM PROGRAM SYSTEM ID PUBLIC IND REGISTRY ID SENSITIVE IND SITE TYPE NAME SMALL BUSINESS IND SOURCE OF DATA STANDARD CITY NAME STANDARD COUNTY NAME STANDARD_LOCATION_ADDRESS STANDARD NAME START DATE START DATE QUALIFIER STATE CODE STATE NAME SUPPLEMENTAL LOCATION TRIBAL_LAND_CODE TRIBAL LAND NAME

Table Contents (Attributes): Qualifier Bridge and Dimension

DIM_QUALIFIER

DIM_QUALIFIER_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
QUALIFIER_CODE
QUALIFIER_DESC
QUALIFIER_TYPE
QUALIFIER_TYPE_DESC

BRIDGE QUALIFIER

DIM_DATE_GMT_KEY
DIM_DATE_LOCAL_KEY
DIM_FACILITY_KEY
DIM_MEASUREMENT_JUNK_KEY
DIM_MONITOR_KEY
DIM_PROTOCOL_KEY
DIM_QUALIFIER_KEY
DIM_SUBSTANCE_KEY
DIM_TIME_GMT_KEY
DIM_TIME_LOCAL_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS

BRIDGE_QUALIFIER_BLANKS

BLANK TYPE

DIM_DATE_GMT_KEY
DIM_DATE_LOCAL_KEY
DIM_FACILITY_KEY
DIM_MEASUREMENT_JUNK_KEY
DIM_MONITOR_KEY
DIM_PROTOCOL_KEY
DIM_QUALIFIER_KEY
DIM_SUBSTANCE_KEY
DIM_TIME_GMT_KEY
DIM_TIME_LOCAL_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS

Table Contents (Attributes): Protocol and Junk Dimensions

DIM_PROTOCOL

ABS MAX SAMPLE VALUE ABS MIN SAMPLE VALUE COLLECTION FREQ CODE COLLECTION FREQ COMMENT COLLECTION FREQ DESC COMPOSITE TYPE DAILY INTERVAL DAILY SAMPLE NUM DIM PROTOCOL KEY **DURATION CODE DURATION COMMENT** DURATION DESC DURATION FRACTION OF DAY **DURATION IND DURATION LENGTH DURATION UNIT** ETL LAST LOAD_DATE ETL LAST LOAD PROCESS FEDERAL MDL METHODOLOGY CODE METHODOLOGY COMMENT METHOD DESC PROTOCOL SOURCE PRO ID RECORDING MODE REFERENCE METHOD ID SAMPLE ANALYSIS DESC SAMPLE COLLECTION DESC SUMMARY SCALE UNIT **UNIT ABBR** UNIT DESC UNIT TYPE

DIM MEASUREMENT JUNK

DIM_MEASUREMENT_JUNK_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
HALF_MDL_SUBSTITUTION
HALF_MDL_SUBSTITUTION_COMMENT
MEASUREMENT_FLAG
MEASUREMENT_FLAG_COMMENT
MEASUREMENT_STATUS
MEASUREMENT_STATUS_COMMENT
MEASUREMENT_TYPE
MEASUREMENT_TYPE
MEASUREMENT_TYPE_COMMENT
REPORTED_SCALE
SAMPLE_COUNT

Table Contents (Attributes): Substance Dimension and Snowflakes

DIM_SUBSTANCE

AQS CARBON CNT AQS PARAMETER ABBR AQS PARAMETER ALT DESC AQS PARAMETER CODE AQS PARAMETER COMMENT AQS PARAMETER DESC AQS UNIT STANDARD AQS UNIT STANDARD ABBR AQS UNIT STANDARD DESC AQS UNIT STANDARD TYPE COMMENT TEXT CONTEXT NAME CURRENT CAS NUMBER CURRENT ICTVDB NUMBER CURRENT TAXONOMETRIC NUMBER **DEFINITION DESCRIPTION** DIM SUBSTANCE KEY **EPA ACRONYM** EPA CLASS SCHEME TYPE **EPA IDENTIFIER EPA NAME** EPA REGISTRY NAME ETL LAST LOAD DATE ETL LAST LOAD PROCESS **IDENTIFICATION CONTEXT** MOLECULAR FORMULA MOLECULAR WEIGHT SUBSTANCE CONTEXT SUBSTANCE ID NUMBER SUBSTANCE TYPE SYSTEMATIC ACRONYM SYSTEMATIC CLASS_SCHEME_TYPE SYSTEMATIC NAME SYSTEMATIC REGISTRY NAME

SNOW_AQS_CLASSIFICATION

CLASSIFICATION_CODE
CLASSIFICATION_COMMENT
CLASSIFICATION_DESC
DIM_SUBSTANCE_KEY
ETL_LAST_LOAD_DATE
ETL_LAST_LOAD_PROCESS
SNOW_AQS_CLASSIFICATION_KEY

BRIDGE_SUBSTANCE_NAME

This table is temporarily removed from the database. The user can get this information by making two queries, the first in SNOW_SUBSTANCE_NAME to get the SUBSTANCE_ID_NUMBER(s) for the name(s) of interest and then use those numbers to query the DIM_SUBSTANCE dimension.

SNOW_SUBSTANCE_NAME

ABSTRACT

CLASS SCHEME ACRONYM CLASS SCHEME TYPE COMMENT TEXT **DEFINITION DESCRIPTION** ETL LAST LOAD DATE ETL LAST LOAD PROCESS PROGRAM OFFICE EFFECTIVE_DATE PROGRAM OFFICE END DATE PROGRAM OFFICE RATIONALE PROGRAM OFFICE SORT ORDER **PURPOSE REGISTRATION AUTHORITY** REGISTRY_DEFINITION REGISTRY NAME SNOW SUBSTANCE NAME KEY SUBSTANCE ID NUMBER SUBSTANCE NAME SUBSTANCE NAME STATUS

Data Model Notes

This section indicates where the actual table linkages from particular facts to dimensions deviates from the "generic" diagram on the previous page.

- Model for FACT MEASUREMENT BLANKS is the same except:
 - Bridge to BRIDGE_QUALIFIER_BLANKS instead of BRIDGE_QUALIFIER
- Model for FACT_DAILY_SUMMARY is the same except:
 - No link to DIM TIME
- Model for FACT_ANNUAL_SUMMARY is the same except:
 - No link to DIM TIME or DIM DATE
 - ANNUAL_SUMMARY_YEAR field in fact table
- All data is linked twice to time: once for local and once for GMT
 - Synoptic queries allowed!
- The dashed lines connecting DIM_FACILITY to DIM_MONITOR and DIM_SUBSTANCE to DIM_MONITOR represent the fact that we included shared elements in these tables to make links common to AQS queries easier (without having to go through FACT_MEASUREMENT).
 - DIM_MONITOR contains a DIM_FACILITY_KEY field
 - DIM MONITOR contains a DIM SUBSTANCE KEY field
 - Thus you can select monitors based on the site they are in or the substances they
 measure.

Hints and FAQs - General

Below are some tips we've found helpful in using the AQS Data Mart. If you have a question or suggestion, please pass it along and we'll include it.

- Never include data from more that one fact table in a query.
- The Annual Summary Fact table is not linked to a any time dimensions, but rather has an ANNUAL_SUMMARY_YEAR field within it that should be used for queries.
- On the Annual Summary Fact table, many of the "same" data elements are repeated prefaced once with AGGR_ and once with SUMMARY_. The AGGR values are aggregates including AirNow data where present, and the SUMMARY values are copied directly from AQS.

Hints and FAQs – SQL Snippets

Below are example SQL code snippets showing the recommended way for performing certain queries.

- To Be Done, below are some examples to start with:
- How does this summer's ozone level compare to last summers (daily or annual AQI)
- Give me all the ozone measurements for XX state in year YY
- Give me all the speciation data for last year
- What latitudes and longitudes were toxics data collected at last year

Hints and FAQs – Other Data

Some of the tables in the Data Mart have been left out of the following diagrams for simplicity. They are related to measurement data in ancillary ways even less direct than the dimensions. They are called "factoid" tables and you might stumble across them. They are:

- FACTOID POLLUTANT STANDARD
- FACTOID MONITORING SEASON
- FACTOID_POLLUTANT_AREA, AND
- FACTOID REQ FREQUENCY
- The Data Mart also contains tables for temporarily holding data (Staging tables) and tables listing data loading errors.